

PRINTER RUSH

(PTO ASSISTANCE)

Application : 10/090857 Examiner : Healy GAU : 2883
From : T. McGill Location : (IDC) FMF FDC Date : 5-13-05

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DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
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[RUSH] MESSAGE: Please provide missing Serial No.
on page 1, line 5 of specification.
Thank you

[XRUSH] RESPONSE: corrected
See Attachment
INITIALS: KP

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REV 10/04

COMBINATION WAVELENGTH MULTIPLEXER
AND WAVELENGTH STABILIZER

Cross Reference to Related Applications

5.24.05 5
This application is related to U.S. Serial No. 10/690,858
entitled "DEVICES UTILIZING GRATINGS AND POWER TAPS WITH
OPTIMIZED LOSS AND POWER SPLITTING CAPABILITIES" (Optovia-5), and
has a common assignee and two common inventors with the present
application and is being filed concurrently with the present
10 application.

Field of the Invention

The present invention relates to optical systems utilizing
transmitters and amplifier pump sources in which wavelengths
generated by at least two radiation sources are multiplexed and
15 individually locked in a grating based device.

Background of the Invention

Wavelengthers, devices used to maintain laser wavelengths, are
extensively used in transmitters of telecommunication systems and
can also be used to stabilize lasers used to pump amplifiers in
20 such systems. Additionally, present day telecommunication
amplifiers are requiring increasing levels of wavelength stable
pump power that can be realized by multiplexing stabilized lasers
of more than one wavelength and/or polarization.

U.S. Patent No. 6,351,583 B1 (Bergmann et al.), issued on
25 February 26, 2002, discloses an optical apparatus for
multiplexing a plurality of optical signals of different
wavelengths by a frequency routing device to provide a
multiplexed output signal. The frequency routing device